# JHESP JOURNAL OF HEALTH SYSTEMS AND POLICIES

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   DAGMAR MAGUROVÁ - L'UDMILA MAJERNÍKOVÁ -LUCIA KENDROVÁ
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## **Contents**

( )

Facing the Challenges of Aging Population in the Turkish Health System **p.5 SABAHATTİN AYDIN - ÖMER ATAÇ** 

۲

The Correlation Analysis of Relative Values of Drugs and the Health Service Tariffs in Private Health Insurance System in Turkey **p.21 GİZEM GENÇYÜREK - İLKER KÖSE** 

Innovative Methods and Learning Techniques Used to Improve the Quality of Education in Slovakia in Nursing **p.35 GABRIELA KURIPLACHOVÁ - ANNA HUDÁKOVÁ - DAGMAR MAGUROV**Á

( )

Advantages and Disadvantages of E-learning in NursingTeaching Process**GABRIELA KURIPLACHOVÁ - GABRIELA KOVÁČKOVÁ - DAGMAR**MAGUROV - ĽUDMILA MAJERNÍKOVÁ - LUCIA KENDROVÁ

Home Health Care Patients and Their Caregivers' Requirements of Psychosocial and Spiritual Support for Better Health **p.55 MEHMET AKIF SEZEROL - ÇAĞRI EMİN ŞAHİN - MEHMET SAİT DEĞER - MUHAMMED ATAK** 

Examination of Malignant Neoplasm and Revealing Relationships with Cigarette Consumption **p.73** ÖZLEM ŞENVAR - İREM ÜNAL

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## Advantages and Disadvantages of E-learning in Nursing Teaching

Gabriela Kuriplachová<sup>1</sup> Gabriela Kováčková<sup>2</sup> Dagmar Magurová<sup>1</sup> L'udmila Majerníková<sup>1</sup> Lucia Kendrová<sup>1</sup>

#### ABSTRACT

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The current education trend in the world confirms the meaningfulness and relevance of e-learning integration into the academic and professional environment. Studies focusing on this form of education point to many benefits in nursing training for the profession. The main objective of this survey is to highlight the advantages and disadvantages of e-learning education in the healthcare teaching process. The survey has a character of overview investigation. The source of gathered information were citations of database PubMed, Medline and BMS, whose investigation ran from November 2017 to January 2018. Total 32 scientific and professional articles were used in the survey from the period 2002-2017. The studied group were students and teachers involved in the learning process through e-learning. E-learning education allows students to be independent and flexible in studying, to develop technical skills, critical thinking and cognitive skills. It empowers teachers to personal and professional growth, development of technical skills. However, e-learning is more effective when it is combined with direct contact of student and teacher/tutor. E-learning is a suitable complementary method of traditional education that current pedagogical practice requires.

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Keywords: Nursing, E-learning, Education, Advantages, Disadvantages.

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46 Advantages and Disadvantages of E-learning in Nursing Teaching

#### **INTRODUCTION**

Today's modern society has seen a significant progress in the use of multimedia technologies in lifelong learning (Kozík, 2006). E-learning education is an education through information multimedia technology, which utilizes technical and socio-psychological way of conducting the teaching process in teacher/tutor and student relationship (Čepelová et al., 2011). According to some authors, such education helps students with independence, responsibility, flexibility, self-control, efficiency of education and with increasing informative literacy. It allows students to learn anywhere and any time (Pišútová et al., 2009; Kanuka, 2008; Meyer, 2014; Song, 2014).

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The current education trend in the world confirms the meaningfulness and relevance of e-learning integration into the academic and professional environment. E-instrumentation as one of the means of e-learning is an exciting way of developing the broad-spectrum competencies of students and educators who have the ambition to continuously improve their work and make it more efficient (Kanuka, 2008).

#### METHODOLOGY

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The main aim of the study is to highlight advatages and disadvantages of e-learning in healthcare teaching process.

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The survey has a character of overview investigation containing results of specialized articles and scientific studies focusing on nursing e-learning. The main source of gathered information were citations of database PubMed, Medline and BMS. The investigation ran from November 2017 to January 2018. The total 124 scientific and professional articles and studies were found.

Total 32 articles for the period 2002-2017 were suited for this survey. Attention was focused on the impact of e-learning education on students' knowledge and abilities, on the effectiveness and quality of the learning process that bring benefits to this education. The results were transferred into a table form.

#### RESULTS

E-learning is an implementation of information technologies in the development, distribution and management for education or teaching. It represents modern educational technologies when transfer of information is

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realized through on-line distance courses. Distance learning nowadays uses the Internet and high-tech equipment for classrooms and workplace, allowing flexible, independent and effective learning (Nemcová et al., 2010).

For students, e-learning is a practical and convenient form of information acquisition and an effective learning management and quality management tool. Such learning enables students to have a better understanding of interpretive texts, to consolidate knowledge and to link them to practice (Meyer, 2014).

From the economic point of view, it saves time and finances (Černák, Mašek, 2007). Electronic education is directly proportional to the interconnection of pedagogical, psychological and technical legislations. Without the acceptance of distance learning rules, it is difficult to succeed. The content of learning in the learning process generally consists of a great extent of knowledge and skills that a student should acquire. It is determined by a number of factors such as a type and focus of the education, learning subjects and so on (Závodná, 2002). The content is specified in the curriculum, education program and specialized standards (Turek, 2010; Petlák, 2016). The advantage of e-learning compared to traditional methods is also the ability to continuously complete and improve textbooks. E-learning education can take place in two lines, ie: off-line study (learning resources are located on data carriers – CDs, DVDs, USB keys, etc.) and on-line learning (learning materials, special electronic textbooks can be obtained through network communication resources - internet, intranet, websites, etc.) (Kalaš et al., 2010; Bednářiková, 2010). This online form of education allows discussion forums, real-time interviews, faster interaction and feedback (Zlámalová, 2008). However, study requires connection to network administrators' using mobile computers or mobile phones. E-learning education can be used as an additional learning support (Blended Learning) or as a separate distance learning using LMS (Learning Management System) software. Blended Learning is a combination of traditional teacherled or tutoring, online teaching and structured work-based training run by qualified staff (Bednářiková, 2010). The success of online learning depends on the possibility of stimulating the dynamics of the virtual class (Jusczyk, Spyrka, 2003). Other benefits of e-learning are a quick and overview of planned topics and learning activities, more space for self-study, national and

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Journal of Health Systems and Policies, Volume: 1, 2019, Number: 2

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international exchange of teacher's experience. Assessing is fast, automatic and does not depend on the location and time of assessment. The advantage is the ability to quickly and easily translate into educational content, adding content and feedback to related subjects (Bednářiková, 2010). By combining various means, videos, computer simulations, multimedia textbooks, group discussions over the Internet and other learning methods that make the process attractive, physically disabled students have the opportunity to learn, develop their imagination, creativity, critical and logical thinking (Nemcová et al., 2010; Jusczyk, Spyrka, 2003; Kvizda, 2004; Liba, 2016). Within the quality of education, it is appropriate to combine this learning technology with the direct contact of participants in the learning process (Černák, Mašek 2007; Zahra et al., 2016). Teachers need to be professionally and technically trained for on-line education. There are not always sufficient supportive technical and organizational structures for the given course (Bednářiková, 2010). The course program can often be created based on author's point of view, rather than the learners', which may appear to be a disadvantage of such learning (Bednářiková, 2010). The advantages and disadvantages of e-learning education are shown in Tables 1-2.

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Study	Aim of study	Description	Results
Green JK, Huntington AD, 2017	Expectations from E-learning education in clinical conditions.	6 target groups monitored for 16 months.	It improves student's knowledge and skills through different courses. Student contacting with a virtual patient will teach them to handle unexpected situations. An effective way to educate a student (beginner) in clinical conditions. Auxiliary supplement to the traditional education.
Jarošová, D, 2002	Impact of e-learning education on level of students' knowledge.	Nursing students.	Effective self-study using high-quality multimedia materials. Study of a large number of people at once. Evaluating a level of student's knowledge during the learning process.

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**Table 1:** Overview of studies focusing on advantages of e-learning education in nursing

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Hajžmanová, L, 2016	The impact of e-learning on students' abilities.	Nursing students	Active access to information for students. Developing students' cognitive abilities (better memorizing and learning of theory). Better teamwork and effective communication between student-teacher in nursing.
Härkänen M, Voutilainen A, Turunen E, Vehviläinen- Julkunen K, 2016	Quality and effectiveness of educational methods (simulations, presentations, posters, pamphlets)	755 students tested in 14 simulation programs	Positive impact of all educational methods on developing students' abilities and skills. Blended Learning and Power Point presentation were the most effective.
Melba Sheila D´Souza, Subrahmanya Nairy Karkada, Ramir Castro, 2014	Effectiveness of e-learning education in nursing	50 teachers of year 1 at nursing university	Professional and personal development of a teacher. Developing technical skills and effeciently implemented teaching in nursing. Less time for a teacher to prepare for continuing education.

Source: *authors* 

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Table 2: Overview of studies focusing on disadvantages of e-learning education in nursing

Study	Aim of study	Description	Results
Jarošová, D, 2002	The impact of e-learning education on level of student's knowledge	Nursing students	High financial costs at early stages of creating a course in nursing.
Ahmed, H. M. S., 2010	Satisfaction of university students with online education.	538 university students	Insufficient instructional characteristics. Required relevant selection of appropriate pedagogues for teaching.
Parker S, Mayner L, Michael Gillham D, 2015	Impact of e-learning education on students' critical thinking.	Nursing students	Necessary consistent and structured leadership of students to critical thinking in regards to teachers in nursing.

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Journal of Health Systems and Policies, Volume: 1, 2019, Number: 2

Hajžmanová, L, 2016	The impact of e-learning education on students' abilities.	Nursing students	The need to control technology and know how to use it effectively.
Melba Sheila D´Souza, Subrahmanya Nairy Karkada, Ramir Castro, 2014	Impact of e-learning education in nursing	50 teachers of year 1 at nursing university	Working overtime in the initial phase of creating an electronic course. The required technical skills of the teacher in the initial phase of the course

#### **Universities Using E-learning Nursing Education**

Nowadays, e-learning education is becoming more and more popular in Slovakia and abroad. Studies focusing on this form of education point to many benefits, for example in the nursing training (Table 1). E-learning enables students to gain more formations and more insight into the issue through innovative methods of this learning process. Professional experience such as how to provide first aid for patients having myocardial attack or epileptic seizure, knowing how to respond appropriately in such situation help students gain that knowledge later during the practice. On-line discussions, blogs, wikis allow students to integrate into so called online community (Geraldine Macdonald, 2002). This type of education is commonly used abroad at University of Birmingham, aimed at educating future nurses. Simulation programs used for virtual student education at this university make a significant contribution towards expanding knowledge and manual skills of nursing students. The programs used are Virtual Case Creator, Virtuar and ComsLive. These programs include about 30 different interactive online simulations aimed at health of children, adults and seniors, prevention of chronic illness complications or falls of disabled patients, seniors and so on. Other world health universities using e-learning are located in Washington, Pittsburgh, Sydney etc. In Czech Republic it is the Silesian University of Opava and Ostrava University in Ostrava. In Slovakia there is Jessenius Medical Faculty in Martin, University of philosoph Constantine in Nitra, University of Joseph Safarik in Kosice and University of Presov. Distance study texts, ie. E-books, audiobooks, video recordings, online courses, videoconferencing, auto-corrective tests,

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electronic link, virtual multimedia visualization and the like, increase student's work activity, autonomy, imagination and overall effectiveness of education (Bajtoš, 2013). E-learning courses are created by a group of programmers, graphic designers, pedagogues and other professionals that require students to have technical skills.

#### DISCUSSIONS AND CONCLUSION

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E-learning education provides students with an option of an individual pace of study, a space for exercise and feedback. It has a positive impact on the development of cognitive skills and the student's level of knowledge. E-learning provides students with an active approach to obtaining information and greater autonomy in a study that currently requires teaching practice. Nowadays, e-learning helps students to self-reflect, to be independent and allows them to be flexible in learning, learn anywhere and anytime (Kim et al., 2014). Using e-learning promotes student activity, creativity and autonomy (Beisetzer, 2006).

E-learning develops the broad-spectrum competence of students and educators who have the ambition to not only simplify their work, but also to improve it continuously. E-learning enhances information literacy and improves communication among participants, helping to move information faster (Lancková et al., 2011).

The effectiveness of e-learning is also clarified by Liba (2016), who states that the form of such learning stimulates cognitive and affective learning. This kind of education influences the internal motivation of students and teachers, the occurrence of creative impulses, such as collaboration with a teacher, where the teacher is understood as an advisor. Self-sufficiency and a peaceful learning environment support students' efforts to learn. As an advantage, Jusczyk, Spyrka (2003) presents the flexibility and convenience, the disadvantage of lack of direct interactions and the technical shortcomings of this training.

Creating e-learning courses in vocational nursing training creates conditions for building national, respectively transnational cooperation with educational institutions.

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Journal of Health Systems and Policies, Volume: 1, 2019, Number: 2

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#### **Recommendations for Teaching Practice and Education**

E-learning recommendations should focus on making this type of modern education more effective. Although the initial financial and time costs for creating a learning module are higher, educational institutions should prefer this learning.

The savings in administration and production of learning module content in e-learning, savings on travel costs for students, production of printed material and textbooks, on teachers and other of them are greater than in traditional education.

In the e-learning educational process, feedback from students is very important (Mosharraf, Taghiyareh, 2012). If an educational institution is to carry out effective education, students need more detailed feedback (Straková, 2015).

It is necessary also to approach students individually as there are great differences in the pace of learning and in the logical thinking of students. Teachers should rationally consider the pace of work of students. It is advisable for the more skilled students to add the work in such a way that they do not get too heavy or discouraged from studying (Pasternáková, 2011). Information that is communicated to students needs to be structured to be effective. When creating e-learning materials, knowledge should be categorized and analyzed in order to make learning easier for the student. Undergraduate preparation of future teachers requires increased attention to the development of sociopsychological skills of teachers (Čepelová et al., 2011).

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Journal of Health Systems and Policies, Volume: 1, 2019, Number: 2

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54 Advantages and Disadvantages of E-learning in Nursing Teaching

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**Methodology.** Materials, synthetic, biological, demographic, statistical or experimental methods of the research should be given detailed in this section. The authors are free to subdivide this section in the logical flow of the study. For the experimental sections, authors should be as concise as possible in experimental descriptions. General reaction, isolation, preparation conditions should be given only once. The title of an experiment should include the chemical name and a bold Arabic identifier number; subsequently, only the bold Arabic number should be used. Experiments should be listed in numerical order. Molar equivalents of all reactants and percentage yields of products should be included. A general introductory section should include general procedures, standard techniques, and instruments employed (e.g., determination of purity, chromatography, NMR spectra, mass spectra, names of equipment) in the synthesis and characterization of compounds, isolates and preparations described subsequently in this section. Special attention should be called to hazardous reactions or toxic compounds. Provide analysis for known classes of assay interference compounds.

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The preferred forms for some of the more commonly used abbreviations are mp, bp,  $^{\circ}$ C, K, min, h, mL,  $\mu$ L, g, mg,  $\mu$ g, cm, mm, nm, mol, mmol,  $\mu$ mol, ppm, TLC, GC, NMR, UV, and IR. Units are abbreviated in table column heads and when used with numbers, not otherwise.

**Results.** This section could include preparation, isolation, synthetic schemes and tables of data.

**Discussion and Conclusions.** The discussions should be descriptive. Authors should discuss the analysis of the data together with the significance of results and conclusions. An optional conclusions section is not required.

Sections above (Methodology, Results, Discussion and Conclusions) are not required for review articles.

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*PDB ID Codes:* Include the PDB ID codes with assigned compound Arabic number. Include the statement "Authors will release the atomic coordinates and experimental data upon article publication."

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*Homology Models:* Include the PDB ID codes with assigned compound Arabic number. Include the statement "Authors will release the atomic coordinates upon article publication."

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*Abbreviations Used:* Provide a list of nonstandard abbreviations and acronyms used in the paper, e.g., YFP, yellow fluorescent protein. Do not include compound code numbers in this list.

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**Citing in the Text.** For citations in the text, use the last name of the author(s) and the year of publication (e.g. for a single author (Aydin, 2018) / for two authors (Aydin and Ozen, 2018) / for three or more authors (Aydin et al., 2018)

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**Tables.** Tabulation of experimental results is encouraged when this leads to more effective presentation or to more economical use of space. Tables should be numbered consecutively in order of citation in the text with Arabic numerals. Footnotes in tables should be given italic lowercase letter designations and cited in the tables as superscripts. The sequence of letters should proceed by row rather than by column. If a reference is cited in both table and text, insert a lettered footnote in the table to refer to the numbered reference in the text. Each table must be provided with a descriptive title that, together with column headings, should make the table self-explanatory. Titles and footnotes should be on the same page as the table. Tables may be created using a word processor's text mode or table format feature. The table format feature is preferred. Ensure each data entry is in its own table cell. If the text mode is used, separate columns with a single tab and use a return at the end of each row. Tables may be inserted in the text where first mentioned or may be grouped after the references.

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To facilitate the publication process, please submit manuscript graphics using the following guidelines:

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2. Additional acceptable file formats are: TIFF, PDF, EPS (vector artwork) or CDX (ChemDraw file). If submitting individual graphic files in addition to them being embedded in a Word document, ensure the files are named based on graphic function (i.e. Scheme 1, Figure 2, Chart 3), not the scientific name. Labeling of all figure parts should be present and the parts should be assembled into a single graphic.

EPS files: Ensure that all fonts are converted to outlines or embedded in the graphic file. The document settings should be in RGB mode. **NOTE:** While EPS files are accepted, the vector-based graphics will be rasterized for production. Please see below for TIFF file production resolutions.

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**Biological Data.** Quantitative biological data are required for all tested compounds. Biological test methods must be referenced or described in sufficient detail to permit the experiments to be repeated by others. Detailed descriptions of biological methods should be placed in the experimental section. Standard compounds or established drugs should be tested in the same system for comparison. Data may be presented as numerical expressions or in graphical form; biological data for extensive series of compounds should be presented in tabular form.

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Active compounds obtained from combinatorial syntheses should be resynthesized and retested to verify that the biology conforms to the initial observation. Statistical limits (statistical significance) for the biological data are usually required. If statistical limits cannot be provided, the number of determinations and some indication of the variability and reliability of the results should be given. References to statistical methods of calculation should be included.

Doses and concentrations should be expressed as molar quantities (e.g., mol/kg, µmol/kg, M, mM). The routes of administration of test compounds and vehicles used should be indicated, and any salt forms used (hydrochlorides, sulfates, etc.) should be noted. The physical state of the compound dosed (crystalline, amorphous; solution, suspension) and the formulation for dosing (micronized, jet-milled, nanoparticles) should be indicated. For those compounds found to be inactive, the highest concentration (in vitro) or dose level (in vivo) tested should be indicated.

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- the cell line source, including when and from where it was obtained;

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**Confirmation of Structure.** Adequate evidence to establish structural identity must accompany all new compounds that appear in the experimental section. Sufficient spectral data should be presented in the experimental section to allow for the identification of the same compound by comparison.

List only infrared absorptions that are diagnostic for key functional groups. If a series contains very closely related compounds, it may be appropriate merely to list the spectral data for a single representative member when they share a common major structural component that has identical or very similar spectral features.

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